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1. Comment: Since neither the requirements nor the planned production figures cover all the products included in those plan position subgroups, it might be safe to assume that the products listed in attachment 1 comprise all those produced under the supervision of the Main Administration for Heavy Machine Construction, whereas the other products within the same plan position subgroups would belong to some other main administrations within the Ministry for Machine Construction.

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Plan Subgroups and Plan Positions Included in the Material Requirement
Key for 1953, Main Administration for Heavy Machine Construction.

<u>Plan Subgroup</u>	<u>Plan Position</u>	<u>Definition</u>
21 00 000		Power-Machine Construction
21 12 110		Water-tube boilers, over 100 tons per hour capacity
	120	High-pressure boilers, over 100 tons per hour capacity
	210	Water-tube boilers, 60 to 100 per hour capacity
	220	High-pressure boilers, 60 to 100 tons per hour capacity
13 110		Water-pipe boilers, 30 to 60 tons per hour capacity
	210	Water-pipe boilers, 10 to 30 tons per hour capacity
14 110		Water-pipe boilers, 2.4 to 10 tons per hour capacity
	210	Water-pipe boilers, up to 2.4 tons per hour capacity
15 200		Low-pressure steam boiler
	300	Large water space boiler (Grosswasserraumkessel)
	900	Other steam boilers
16 100		Steam turbines, 1 to 50 kW
	200	Steam turbines, 50 to 175 kW
	300	Steam turbines, 175 to 500 kW
	400	Steam turbines, 500 to 5,000 kW
	500	Steam turbines, over 5,000 kW
17 110		Water turbines, over 100 kW
	120	Water turbines, up to 100 kW
	200	Gas turbines
18 110		Spare parts and appurtenances for boilers
	120	Spare parts for turbines
	990	Other spare parts for power machines
19 200		Marine diesel and marine gas motors
	300	Stationary diesel and gas motors
21 000		Individual and spare parts for combustion engines
24 000		Piston type steam engines
25 000		Fuel-injection pumps
99 000		Other products for power machine construction
22 00 000		Machine tools, forging and pressing equipment
22 11 111		Lathes, up to 250 mm. turning diameter over support
	112	Lathes, 250 to 550 mm. " " "
	114	Lathes, 550 to 1,000 mm. " " "
	121	Multiple-cutter lathes
	125	Backing-off lathes
	126	Facing lathes
	127	Vertical lathes, up to 1,600 mm. diameter
	128	Vertical lathes, over 1,600 mm. diameter
	129	Other lathes
	130	Special lathes
	210	Turret lathes
	221	Multi-spindle automatic lathes
	224	Various single-spindle automatic lathes
	231	Vertical milling machines
	232	Horizontal milling machines
	233	Universal milling machines
	235	Cutter, surface and portal milling machines
	236	Slot cutters and end mills
	237	Thread-cutting and worm-thread milling machines
	238	Duplicating milling machines
	239	Other milling machines
	241	Tooth-slotting and planing machines
	242	Hob-type milling machines up to modulus 10
	243	Hob-type milling machines over modulus 10
	249	Other machines for processing teeth (except grinding machines))
	251	Jig drills
	252	Micro-drills
	253	Horizontal mills and drills up to 100 mm. spindle diameter
	254	Horizontal mills and drills over 100 mm. spindle diameter

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Plan Subgroups
Plan Position

Definitions

259	Other mills and drills
262	Shaping machines (without shapings)
263	Die-slotting and keyseating machines
264	Parallel-planing machines up to 1,600 mm. planing width
265	Parallel-planing machines over 1,000 mm. planing surface
271	Horizontal slotting machine
272	Vertical slotting machines
291	External-surface grinding machines (Aussenrunds- schleifmaschine)
292	Flat grinding machines
293	Internal-surface grinding machines (Innenrund-)
294	Centerless circular grinders
295	Gear-wheel grinding machines
296	Machine tool grinding machines
297	Lapping and honing machines
298	Special grinding machines
299	Other grinding machines
321	Single-spindle drilling machines up to 20 mm. drilling diameter
322	Single-spindle drilling machines, 20 - 40 mm. drilling diameter
323	Single-spindle drilling machines, over 40 mm. drilling diameter
324	Radial drilling machines up to 40 mm. drilling diameter
325	Radial drilling machines over 40 mm. drilling diameter
326	Multi-spindle line drilling machines (Reihenbohr- maschinen)
327	Multi-spindle joint-spindle (Gelenkspindel) drilling machines)
329	Other drilling machines
341	Metall circular saws
360	Threadcutting machines
12 112	Eccentric, crank and bent lever presses up to 125 tons
113	Eccentric, crank and bent lever presses over 125 tons
115	Gang press (excepting hydraulic gang presses)
120	Friction spindle presser
130	Special presses
151	Hydraulic presses up to 63 tons
152	Hydraulic presses over 63 tons
160	Hydraulic forge presses
170	Rack and pinion presser (Zahnstangenpressen)
190	Other presses
13 110	Forge hammers
120	Riveting machines
11 110	Combination shears (kombinierte Scheren)
120	Squaring shears
130	Hand-operated plate shears
140	Profile shears
190	Other shears
15 100	Bending machines for plate, pipe, shafts and bars, wire processing machines
99 000	Other machine tools, forging and pressing equipment and appurtenances for machine tools
23 00 000	Tools and foundry equipment
23 11 120	Millers
190	Other cutting instruments
12 200	Various measuring instruments and tools
13 000	Locksmith and assemblage tools
14 990	Various air-pressure tools and spare parts
16 110	Pressing tools
120	Punching and cutting tools
19 170	Form machines (Formmaschinen)

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<u>Plan Subgroups</u>	<u>Plan Position</u>	<u>Definition</u>
	990	Various foundry equipment
	99 000	Various tools
	190	Appliances (Vorrichtungen)
24 00 000		Equipment for the metallurgy and mining industry
24 11 110		Blast furnace equipment
	130	Rolling mill machines
	140	Cokery machines
	170	Spare parts and appurtenances for metallurgical equipment
	12 130	Conveyor equipment
	990	Various special machines for the mining industry
	13 000	Equipment for the production of cement and other non-inflammable materials
	15 000	Spare parts for mining and enrichment equipment
	18 000	Wire-drawing benches
	19 000	Stranding machines
25 00 000		Equipment for the fuel industry (coal industry)
25 11 119		Various conveyor equipment for shafts
	150	"Seilschlagbohrmaschinen" (Rope spinning machine)
	170	Spare parts for the repair of equipment of the coal industry
	190	Equipment for peat and briquette factories
	990	Other equipment for the fuel industry
26 00 000		Transport equipment
26 11 110		Normal electric traveling cranes
	120	Metallurgical cranes
	130	Hand-operated traveling cranes
	140	Crane mounts (Tragger), electrical
	160	Railway cranes
	170	Gantry cranes
	190	Other cranes
	12 110	Builder's hoists
	120	Scraper hoists
	140	Capstan hoists
	190	Other hoists
	13 000	Conveyors
	14 000	Electric trolleys
	15 000	Crane trolleys
	16 000	Spare parts for hoisting and transport equipment
	99 000	Other transport equipment
27 00 000		Chemical, pump and compressor equipment
27 11 250		Vacuum apparatus and vacuum filters
	230	Filters and sieves
	290	Special machines and apparatus
	12 110	Centrifugal pumps (turbine pumps)
	120	Steam pumps
	140	Hand pumps
	150	Piston-type pumps
	990	Other pumps
	13 141	Air compressors up to 500 cubic meters per hour
	142	Air compressors over 500 cubic meters per hour
	150	Gas compressors
	990	Other compressors
	14 000	Ventilators
	15 000	Air blowers (bellows)
	17 000	Spare parts for compressors, pumps and ventilators
	18 000	Spare parts for chemical equipment
30 00 000		Refrigeration and air-conditioning equipment
31 00 000		Equipment for the glass industry
31 17 000		Glass forms and appurtenances
32 10 000		Agricultural machines
32 23 000		Chopping and beet slicing machines
	36 000	Irrigation apparatus

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Plan Subgroups
Plan Position

Definition

42 900	Various individual and spare parts for agricultural machines
33 00 000	Building and road-building machines
33 11 110	Steam shovels
120	Basket-conveyor dredges
99 100	Spare parts for building and road-building machines
900	Other equipment for building and road-building machines
35 00 000	Equipment for light industry
35 35 000	Washing machines
37 00 000	Fire-fighting equipment
37 13 000	Fire extinguishers
38 00 000	Communal equipment (etc)
38 10 000	Water purification units
90 000	Other communal equipment
39 00 000	Other products of machine building without compensation work and repairs
39 11 110	Ball bearings up to 100 mm. bore
170	Self-aligning ball bearings up to 100 mm. bore
210	Ball bearings over 100 mm. bore
3110	Roller bearings up to 100 mm. bore
4110	Roller bearings over 100 mm. bore
600	Needle (roller) bearings
600	Roll bodies (Walzkörper)
700	Appurtenances
12 100	Other bearings and appurtenances
13 000	Gears
14 000	Parts of machines
91 110	Repairs for general machine construction
120	Hired labor, including sub-contractors work
310	
320	
40 00 000	Structural steel
40 10 000	Structural steel for steel structures
20 000	Structural steel for bridges
30 000	Construction of containers
40 000	Construction of pipe lines
50 000	Other structural steel
45 00 000	Fittings (Armaturen)
45 13 000	Cast iron fittings
15 000	Other fittings
45 00 000	Vehicle construction
45 11 800	
12 131	Spare parts (for automobiles, motorcycles and bicycles)
132	Appurtenances
50	Spare parts (for tractors - with and without tracks)
520	Appurtenances
19 930	Various marine construction products
47 00 000	Cast and forged pieces
47 11 110	Gray iron castings
120	Malleable iron castings
12 120	Electro-steel castings
130	Siemens-Martin steel castings
140	Basic steel castings
19 110	Unshaped (Freiform) forged pieces from steel
120	Drop-forged and hot-pressed pieces from steel
15 120	Brass castings (Formguss)
130	Brass castings
140	Red brass castings
150	Aluminum castings
160	Zinc castings
170	Magnesium castings
180	Other castings

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Plan Subgroups
Plan Position

Definition

48 00 000	Metal products
43 11 200	Link chains
18 200	Shaped turned parts
23 900	Various nails and brads
99 000	Miscellaneous metal products
49 00 000	Metal consumer goods
39 35 000	Small metal goods
51 200	Shovels
300	Pitchforks (Kisengabeln)
99 900	Miscellaneous metal consumer goods
51 00 000	Electrical Engineering, total
51 14 145	Power plant turbogenerators, 500 to 5,000 kW
990	Various electromotors
64 110	Rotating magnets (electric)
990	Various low-tension devices
79 000	Special parts for accessories
91 000	Repairs
53 00 000	Precision mechanics and optics
61 00 000	Basic chemistry
61 29 990	Various basic organic chemicals
49 990	Various chemical-technical special products
81 00 000	Wood processing
81 15 000	Furniture
30 200	Physical culture and sport equipment
89 500	Wooden boxes
910	Technical and commercial devices from wood
990	Other products of the wood industry not mentioned above

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Attachment 2

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Plan Position Subgroups	1951		1952		1953		1954		1955	
	Production	Requirements	Production	Requirements	Production	Requirements	Production	Requirements	Production	Requirements
21,000,000	150,208	131,746	150,208	131,746	150,208	131,746	150,208	131,746	150,208	131,746
22,000,000	116,153	116,153	116,153	116,153	116,153	116,153	116,153	116,153	116,153	116,153
23,000,000	12,709	12,709	12,709	12,709	12,709	12,709	12,709	12,709	12,709	12,709
24,000,000	25,215	25,215	25,215	25,215	25,215	25,215	25,215	25,215	25,215	25,215
25,000,000	10,004	10,004	10,004	10,004	10,004	10,004	10,004	10,004	10,004	10,004
26,000,000	74,227	74,227	74,227	74,227	74,227	74,227	74,227	74,227	74,227	74,227
27,000,000	82,703	82,703	82,703	82,703	82,703	82,703	82,703	82,703	82,703	82,703
28,000,000	7,240	7,240	7,240	7,240	7,240	7,240	7,240	7,240	7,240	7,240
29,000,000	302	302	302	302	302	302	302	302	302	302
30,000,000	630	630	630	630	630	630	630	630	630	630
31,000,000	12,253	12,253	12,253	12,253	12,253	12,253	12,253	12,253	12,253	12,253
32,000,000	940	940	940	940	940	940	940	940	940	940
33,000,000	157	157	157	157	157	157	157	157	157	157
34,000,000	2,310	2,310	2,310	2,310	2,310	2,310	2,310	2,310	2,310	2,310
35,000,000	27,418	27,418	27,418	27,418	27,418	27,418	27,418	27,418	27,418	27,418
36,000,000	57,045	57,045	57,045	57,045	57,045	57,045	57,045	57,045	57,045	57,045
37,000,000	6,766	6,766	6,766	6,766	6,766	6,766	6,766	6,766	6,766	6,766
38,000,000	13,591	13,591	13,591	13,591	13,591	13,591	13,591	13,591	13,591	13,591
39,000,000	183,636	183,636	183,636	183,636	183,636	183,636	183,636	183,636	183,636	183,636
40,000,000	2,671	2,671	2,671	2,671	2,671	2,671	2,671	2,671	2,671	2,671
41,000,000	5,009	5,009	5,009	5,009	5,009	5,009	5,009	5,009	5,009	5,009
42,000,000	8,585	8,585	8,585	8,585	8,585	8,585	8,585	8,585	8,585	8,585
43,000,000	513	513	513	513	513	513	513	513	513	513
44,000,000	627	627	627	627	627	627	627	627	627	627
45,000,000	1,230	1,230	1,230	1,230	1,230	1,230	1,230	1,230	1,230	1,230
Total	1,113,000	1,113,000	1,113,000	1,113,000	1,113,000	1,113,000	1,113,000	1,113,000	1,113,000	1,113,000

All amounts are in thousands of LBS.